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(54) RESIN COMPOSITION FOR COATING OPTICAL FIBER AND OPTICAL FIBER

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a resin composition for coating optical fibers, capable of retaining sufficient initial breaking strength even in a high humidity/ temperature atmosphere by employing a specific silane coupling agent.

SOLUTION: This resin composition for coating optical fibers comprises (A) 20-90 wt.% oligomer capable of radically polymerizing, (B) 5-70 wt.% monomer capable of radically polymerizing, (C) 0.1-10 wt.% photopolymerization initiator and (D) 0.01-5 wt.% silane coupling agent having an oxirane ring. The component A is an urethane acrylate synthesized from a polyol (pref. having 400-20,000 average molecular weight and esp. being a polymer from 1,2-butylene oxide, or the like), a polyisocyanate and a compound including a polymerizable unsaturated group and hydroxyl group as its end groups, having 3,000-20,000 average molecular weight.

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